

## **REMARKS**

Claims 1-25 are cancelled, without prejudice. Claims 26-58 were added. Claims 26-58 are now pending. In light of the forgoing amendment and following remarks, the applicants respectfully request withdrawal of the pending rejections, and advancement of this application to allowance.

Claims 1-24 stand rejected as being anticipated by Suri et al. Claim 25 stands rejected as being obvious over Suri et al. The applicants respectfully traverse these rejections.

Suri et al. discloses a structure in which the axis of travel for the magnet extends through the distance sensing means. Furthermore, Suri merely discloses distance-sensing means (40, 180, 440) connected to other electronics and an LED (58, 190, 290, 450). It fails to teach or suggest that the distance sensing means or other electronics is programmable.

In sharp contrast, new claims 26-33 set forth a structure in which the hall-effect sensor outputs a voltage in response to a magnetic field that exerts a force through the surface of the hall-effect sensor. The surface is parallel to the axis along which the gauge member travels. Accordingly, the axis does not pass through the hall-effect sensor. Suri fails to disclose such a structure and the applicants respectfully submit that claims 26-33 are patentably distinct.

In sharp contrast to Suri, new claims 34-52 set forth a structure in which the differential pressure gauge has a hall-effect sensor that is programmable. This structure has significant advantages over a non-programmable hall-effect sensor. For example, individual differential-pressure gauges can be calibrated by programming the hall-effect sensor, which allows for less restrictive manufacturing tolerances. Additionally, a single structure can be use for a variety of different filters and desired pressure ranges by simply programming of the hall-effect sensor. Suri fails to disclose such a structure and the applicants respectfully submit that claims 34-52 are patentably distinct.

Also in sharp contrast to Suri, claims 53-58 set forth a method of manufacturing a differential pressure gauge that includes programming a programmable circuit so that it outputs a predetermined voltage level when there is a predetermined pressure differential between the first and second pressure chambers. Suri fails to disclose such an act and the applicants respectfully submit that claims 53-58 are patentably distinct.

For these reasons, the applicants respectfully submit that the claims invention is patentably distinct from the cited reference, and request reconsideration and withdrawal of the pending rejection. If a telephone conference would be helpful in resolving any issues concerning this communication, please contact the applicants' attorney-of record, John C. Reich at (612) 336-4608.

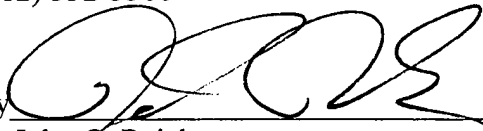
Respectfully submitted,

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